

METHODS AND APPARATUS FOR HIGH PERFORMANCE ELECTRICAL CONNECTIONS

5 ABSTRACT OF THE DISCLOSURE

Coax and twinax connector assemblies, suitable for low-cost manufacturing and high-frequency performance, include one or more slices of insulating material having a series of through-holes therein. Dimensions of the through-holes are tailored to the dimensions of the coax or twinax that are to be fitted to such connector assemblies. The slices may have dimensions that are uniform to within typical manufacturing tolerances. By combining, or stacking, the slices, the connector height can be customized to a particular application. A variety of slice thicknesses are provided so that a variety of final connector heights may be achieved. Conductive material sheets may be disposed between one or more pairs of connector slices so as to provide a common ground connection for one or more conductors, such as, for example, ground shields, disposed in the through-holes of the stacked connector slices. Additionally, right angle connectors and low-cost twinax cables are disclosed.